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प्लाज्मा अनुसंधान संस्थान
INSTITUTE FOR PLASMA RESEARCH
परमाणु ऊर्जा विभाग, भारत सरकार का एक सहायता प्राप्त संस्थान
**An Aided Institute of Department of Atomic Energy,
Government of India**



इन्दिरा पुल के पास, भट, गांधीनगर - 382 428 भारत
दूरभाष: (079) 2396 2020/2021/2028
फैक्स: 91-079-23962277
वेब: www.ipr.res.in

NEAR INDIRA BRIDGE, BHAT
DIST. GANDHINAGAR - 382 428 (INDIA)
Phone: (079) 2396 2000/2026/2332
Fax : 91-079-23962277
Web : www.ipr.res.in

ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/141
Date : 11-10-2018

Due on : 15-11-2018 by 1:00 PM IST

Please send your offer in sealed envelope specifying Enquiry No, Date & Due Date, ALONG WITH your credentials for the following items which we are interested to import directly against Foreign Trade Policy 2015-2020.

Important Note:

Please note that e-mail quotations are not acceptable however you may send your queries (if any) to importpurchase@ipr.res.in

Please ensure your sealed quotation reaches this office not later than above mentioned due date and time.

Kindly go through the following documents properly before quoting which are available on the IPR web portal i.e., http://www.ipr.res.in/documents/tender_terms.html / attached herewith.

- 1) Instructions to the bidders & Terms and conditions (refer Form No: **IPR-FP-01.V3**)
- 2) Bidding format

GST for Goods and Services (IGST/CGST/SGST TAX BENEFITS): Please refer **clause no: 14** of Form No: **IPR-FP-01.V3**

QUOTATION SHOULD BE ADDRESSED TO PURCHASE OFFICER ONLY

Sr No	Description	Quantity
1	W-Band Low Noise Amplifier	1.0 Nos.
2	D-Band Low Noise Amplifier	1.0 Nos.

Note: 1. Payment Terms: 90% of invoice value will be made within 7seven working days through online (E-Payment) directly to your account after receipt of material at IPR site. Balance 10% payment will be made within 30 days from the date of acceptance and on receipt of your final invoice.

2. Please quote with complete technical details (Technical compliance sheet and product data sheet).

Encl: Other details are as per attached specification sheet.

Sd/-

Mr. D. Ramesh
Purchase Officer-II

Information to Vendors: We are working towards a single platform for our future requirement. Hence, please refer IPR website i.e, <http://www.ipr.res.in/documents/tendersenq.html> for our future requirement.

TDS as per CGST Act: As per provisions of section No. 51 of the CGST Act 2017, TDS @2% (IGST 2% or CGST 1% and SGST 1%) will be deducted while making payment to the suppliers where total value of orders/contracts/work orders exceeds Rs. 2.5 lakhs, in the event of order in Indian Rupees. Necessary TDS Certificate will be issued to the supplier after TDS deduction.

TECHNICAL SPECIFICATION SHEET – 1/ 2

Specifications for W-Band & D-Band Low Noise Amplifier (LNA)

W-Band Low Noise Amplifier

S.No	PARAMETERS	W-BAND LNA
1.	Frequency	75 – 110 GHz
2.	Noise Figure	≤ 5 dB typical (Lower Noise Figure will be preferred)
3.	Input Power (Maximum)	≤ -20 dBm
4.	Gain	≥ 38 dB (typical) or better
5.	In / Out Port	WR-10 / UG-387
6.	Power supply	(i) Input Bias Voltage: 230V \pm 5%, Frequency: 50 Hz (ii) Regulated power supply should be part of the Low Noise Amplifier (LNA)
7.	Operating Temperature:	Up to +45°C Or Better
8.	Quantity Required	One

Others:

- Heat sink (if required) should be the part of the Amplifier.
- Provide the detailed datasheet and performance characteristics in the Entire Frequency Band.
- Provide the details about Warranty / Guarantee Issues.

TECHNICAL SPECIFICATION SHEET – 2/ 2

D-Band Low Noise Amplifier

S.No	PARAMETERS	D-BAND LNA
1.	Frequency	110-170 GHz
2.	Noise Figure	≤ 6 dB typical (Lower Noise Figure will be preferred)
3.	Input Power (Maximum)	≤ -10 dBm
4.	Gain	≥ 30 dB (typical) or better
5.	In / Out Port	WR-6 / UG-387
6.	Power supply	(i) Input Bias Voltage: 230V \pm 5%, Frequency: 50 Hz (ii) Regulated power supply should be part of the Low Noise Amplifier (LNA)
7.	Operating Temperature:	Up to +45°C Or more
8.	Quantity Required	One

Others:

- Heat sink (if required) should be the part of the Amplifier.
- Provide the detailed datasheet and performance characteristics in the entire Frequency Band.
- Provide the details about Warranty / Guarantee Issues.

COMPLIANCE FORM – 1/ 2

W-Band Low Noise Amplifier

IPR Requirement		Vendor's Specification	Remarks
S.No	Parameters	W-BAND LNA	
1.	Frequency	75 – 110 GHz	
2.	Noise Figure	≤ 5 dB typical (Lower Noise Figure will be preferred)	
3.	Input Power (Maximum)	≤ -20 dBm	
4.	Gain	≥ 38 dB (typical) or better	
5.	In / Out Port	WR-10 / UG-387	
6.	Power supply	(i) Input Bias Voltage: 230V ± 5%, Frequency: 50 Hz (ii) Regulated power supply should be part of the Low Noise Amplifier (LNA)	
7.	Operating Temperature:	Up to +45°C Or more	
8.	Quantity Required	One	
9.	Heat sink (if required) should be the part of the Amplifier.		
10.	Detailed datasheet and performance characteristics in the entire Frequency Band should be provided		
11.	Details about Warranty / Guarantee Issues should be informed		

COMPLIANCE FORM – 2/ 2
D-Band Low Noise Amplifier

IPR Requirement		Vendor's Specification	Remarks
S.No	Parameters	D-BAND LNA	
1.	Frequency	110-170 GHz	
2.	Noise Figure	≤ 6 dB typical (Lower Noise Figure will be preferred)	
3.	Input Power (Maximum)	≤ -10 dBm	
4.	Gain	≥ 30 dB (typical) or better	
5.	In / Out Port	WR-6 / UG-387	
6.	Power supply	(i) Input Bias Voltage: 230V ± 5%, Frequency: 50 Hz (ii) Regulated power supply should be part of the Low Noise Amplifier (LNA)	
7.	Operating Temperature:	Up to +45°C Or more	
8.	Quantity Required	One	
9.	Heat sink (if required) should be the part of the Amplifier.		
10.	Detailed datasheet and performance characteristics in the entire Frequency Band should be provided		
11.	Details about Warranty / Guarantee Issues should be informed		

Date: _____

Bidder's sign and stamp: _____